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of the difficulty, for a difference of horizon in the same formation at so short a distance would mean a fault, and if a fault is once supposed it is easier to imagine it several thousand feet in extent, if this will account for other phenomena such as the absence of the Potsdam where it ought to be on the northern edge of the southern belt of limestones; than a few hundred feet, leaving this and kindred difficulties to be disposed of by separate hypotheses.

That the syenite south of the South-Valley-hill is an anticlinal is very probable, since the whole structure of the South hill to the Octoraro creek is anticlinal; but that the "Eurite" which occurs north of the anticlinal and south of the South Valley hill represents the Potsdam, we think "almost without question" is not the case, for the reason among many others that the absence of the white sandstone between it and the valley would need accounting for.

The map which accompanies the paper is quite obscure, in spite of the explanations in the title, and it is difficult to ascertain whether the section given lies in Chester or Delaware county. One other feature of the paper is natural perhaps to communications intended for small bodies of scientific men, who become more familiar with each other's works than with those of the world outside. This may account for an absolute silence as to the thinking and working of any soul on these very interesting and intricate questions except Professors Rogers and Lewis, Mr. Hall, whose work forms the target for this last contribution, and Mr. Rand who shoots.¹—*P. F.*

RECENT BOOKS AND PAMPHLETS.—Truck Farming at the South, a guide to the raising of vegetables for Northern markets. By Dr. A. Oëmler. New York, Orange Judd & Co. From the publishers.

Final Causes. By Paul Janet, member of the Institute. Translated from the second edition of the French by W. Affleck, B.D. New York, Chas. Scribner's Sons.

Jamaica. Annual report of the Public Gardens and Plantations for the year ending Sept. 30, 1882. By D. Morris, M.A., director. Kingston, 1883. From the author.

The Storage of Electricity. By H. L. Greer. New York, 1883. From the author.

The Scientific Roll and Magazine of Systematized Notes. Climate. Vol 1, Part II. Aqueous Vapor. London, 1883. From the Conductor, A. Ramsay, F.G.S.

Art Institute Lecture on Artistic Anatomy and the sciences useful to the Artist. By S. V. Clevenger, A.M., M.D. Chicago, 1883. From the author.

A study of the poison of the *Heloderma suspectum*, or Gila monster. By Drs. S. W. Mitchell and E. T. Reichert. Philadelphia Medical Times, March 10, 1883.

Sur un Saccodon d'espèce nouvelle provenant de l'Equateur. Par M. Al. Thominol. Ext. du Bulletin de la Societe Philomathique de Paris, 12 aout, 1882. From the author.

Ninth Annual Report of the Zoological Society of Cincinnati, 1882.

The Selective Absorption of Solar Energy. By S. P. Langley. Ext. from the Amer. Jour. of Science, March, 1883. From the author.

¹ Mr. Hall sends a reply to Mr. Rand's criticism, which will be printed shortly.

Beiträge zur Kenntniss der Flussfische Südamerika's, iv. Von Dr. Franz Steindachner. Wien, 1882. From the author.

On the value of the "Nearctic" as one of the primary zoological regions. Ext. Proc. Acad. Nat. Sci., Phila., 1882. By Professor A. Heilprin. From the author.

Observations on current American bibliography. By Dr. D. G. Brinton. Ext. from minutes Numismatic and Antiquarian Soc. of Phila., Apr. 5, 1883. From the author.

Allen's Human Anatomy, Section iv. Arteries, veins and lymphatics. By Harrison Allen, M.D. Philada., 1883. From the author.

Resúmen del Curso de Zoología. Por A. Ernst. Caracas, 1882. From the author.

Memoirs of the Geological Survey. England and Wales. The Vertebrata of the Forest Bed series of Norfolk and Suffolk. By E. T. Newton, F.G.S. From the author.

Bird Remains from Mundesley. By E. T. Newton, F.G.S. Ext. from the Geological Magazine, March, 1883. From the author.

A review of the non-marine fossil Mollusca of North America. By Chas. A. White. Ext. from the Annual report of the U. S. Geological Survey. Washington, 1883. From the department.

Tertiary history of the Grand Cañon district, with Atlas. By Clarence E. Dutton. U. S. Geological Survey. Washington, 1882. From the department.

The International Scientists' Directory, in America, Europe Asia, Africa and Oceania. Compiled by Saml. E. Cassino. Boston, Mass.

Annual report of the State Geologist for 1882. Geological Survey of New Jersey. Camden, 1882.

Elements of Orthoeopy. Compiled for use as a text book in the Academy of Science and Art at Ringoes, N. J., by C. W. Larison, M.D., 1881. From the author.

Bulletin of the United States Fish Commission, Vol. 1, 1881. Washington, 1882. From the commission.

The Eozoic and Lower Palæozoic in South Wales, and their comparison with their Appalachian analogues. By Dr. Persifer Frazer. From the author.

A contribution to our knowledge of the development of the Oyster (*Ostrea edulis* L.). By Dr. R. Horst, Utrecht. Translated by J. A. Ryder, 1882. Ext. Bulletin U. S. Fish Commission. From J. A. Ryder.

Concord Lectures on Philosophy. Comprising outlines of all the lectures at the Concord Summer School of Philosophy, 1882. Collected and arranged by R. L. Bridgman. Cambridge, Mass.

Memoirs of the Geological Survey of India. Palæontologica Indica. Series x. Indian Tertiary and Post-tertiary Vertebrata. Vol. 11, Part v. Siwalik Selenodont Suina, etc. By R. Lydekker, B.A., F.Z.S. Calcutta, 1883. From the author.

Annual report of the Curator of the Museum of Comparative Zoölogy at Harvard College, 1881-1882. Cambridge, 1882. From Professor A. Agassiz.

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GENERAL NOTES.

GEOGRAPHY AND TRAVELS.¹

ARCTIC ITEMS.—Reports of various kinds have been afloat respecting the whereabouts of the *Dijmphna*, but no authentic news has been received since that brought to Europe by Capt. Dallman of the *Louise*, and dated Sept. 22. Mistaking certain signals, she left the open lead in which she was, and which would probably have led her in safety to the Kara sea, and went to the

¹This department is edited by W. N. LOCKINGTON, Philadelphia.